

Notice of Allowability

Application No.

09/735,495

Examiner

Ramy M. Osman

Applicant(s)

MALM, PETER

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed April 25, 2005.
2. ☒ The allowed claim(s) is/are 1-17.
3. ☒ The drawings filed on 14 December 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Kenneth B Leffler (Reg. No. 36,075) on June 13, 2005.

The application has been amended as follows:

Claim 8: A receiver for receiving packet based data transmissions, the receiver comprising:

a soft output detector;

a decoder;

local memory;

logic that compresses failed data blocks and stores the compresses failed data blocks in said local memory;

logic that decompresses a compresses failed data block stored in said local memory; and

logic that combines said decompressed data block with an associated retransmitted data block.

Claim 15: A method of ~~compressing~~ processing data blocks within a receiver of a communications system, comprising:

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receiving a data blocks in the receiver;

calculating a scale factor that represents soft values within the received data block; and

storing the scale factor and a representation of each soft value within the data block in memory, the representation indicating only a sign of each soft value within the received data block;

generating a decompressed data block by decompressing the scale factor and the representation of each soft value within the data block stored in memory; and

combining the decompressed data block with an associated retransmitted data block.

Claim 17: A method of compressing data blocks within a receiver of a communications system, comprising:

receiving a data blocks in the receiver;

calculating a scale factor that represents soft values within the received data block; and

storing the scale factor and a sign of each soft value within the data block in memory;

dividing the data blocks into a plurality of sub-blocks, wherein each sub-block is characterized by a substantially constant signal-to-interference and noise-ratio;

calculating a plurality of scale factors, wherein each scale factor represents soft values within a corresponding sub-block; and

storing the plurality of scale factors and a sign of each value within the data block in memory.

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Status of Claims

2. This communication is responsive to amendment filed on April 25, 2005, where claims 15 and 17 were amended. Claims 1-17 are pending.

Allowable Subject Matter


3. Claims 1-17 are allowed.
4. For reasons of allowance please see Office Action dated 1/26/2005.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramy M. Osman whose telephone number is (571) 272-4008. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMO
June 10, 2005


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SUPERVISORY PATENT EXAMINER
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